## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION            | INITIALS | ID NO. | DATE    |
|---------------------|----------|--------|---------|
| FEE DETERMINATION   | 7.D.     |        | 7/1/99  |
| O.I.P.E. CLASSIFIER |          | 48     | 7/8/99  |
| FORMALITY REVIEW    | LH       | 60105  | 7-20-47 |

## INDEX OF CLAIMS

| V | Rejected                   |   | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    |   | interference |
|   | (Through numeral) Canceled |   | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

|    | Cla   | im        |          |          | _            | _     | Dat          | Date         |              |  |                                     |  |  |
|----|---|-----------|----------|----------|--------------|-------|--------------|--------------|--------------|--|-------------------------------------|--|--|
|    | H   |           | 2        | 4        | .9           | . 4   | 1            |              | П            | 1  | I                                   | ⊣  |  |
|    | _   | 룓         | 21818    | 90       | 18           | 9230  | 二            | Į            |              | ŀ  |                                     | ı  |  |
|    | Final   | Original  | 02       |          |              | 1     | 03           |              | 1            | 1  | ŀ                                   | Į  |  |
|    | Œ   | စ္        |          | 02       | .02          | 3     | Ш            |              |              |  |                                     |  |  |
|    |   | (1        | ÷        | 1        |              | جِم   | 7            |              |              |  | I                                   | ]  |  |
|    | М   | 18        | ī        | 1        |              | ī     | ı            | $\neg$       |              |  | $\neg$                              | $\neg$   |  |
|    | ⊢   | 15        | Н        | 1        | _            | ⊦⊹    | 1            | Н            | $\neg$       | _  |                                     | -  |  |
|    | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | <u> </u>  | Ш        |          | 1            | Ц     | Ľ            | Щ            | _            |  | _                                   | $\Box$   |  |
|    |   | W         | Ш        | 4        | Ш            |       |              |              |              |  |                                     |  |  |
|    | Γ   | V)        | П        | 瑟        |              | Ħ     | J.V          |              |              |  | il                                  | ļ  |  |
|    |   | K         | Н        | 1        |              | 3     |              |              |              |  |                                     |  |  |
|    | ├-  | 1.77      | ₩        |          |              | М     | Ž            | Н            | _            |  | Н                                   | Н  |  |
|    | _   | 1         | ₩        | 쯚        |              | Ž     |              | Н            | _            | _  | Н                                   | _  |  |
|    | L   | TO TO THE | Ш        |          |              |       |              | Ш            | _            |  | Щ                                   | _  |  |
|    | ′   | No.       | Ħ.       | 1        |              | 1     | =            |              |              |  |                                     |  |  |
|    | $\Box$  | Kib       | П        | 3.5      | 25           | V     | 2            |              |              |  |                                     | ,  |  |
|    |   | kЖ        | ₩.       | -3       | Ż            |       |              | H            |              | _  |                                     | $\overline{}$                                    |  |
|    | H   | H.        | ~        | 11111    |              | 님     |              | -            |              | _  | H                                   | _  |  |
| _  | -   | 12        |          | 100      | ≝ ₹          |       |              | Ш            | L            | L  | Щ                                   | ш  |  |
|    | Ĺ   | Q         | 1        | L        | _            | 1     | N            | L            |              | L  |                                     |  |  |
|    |   | C         | 1        |          | 1            | П     | N            |              |              |  |                                     |  |  |
|    | $\vdash$  | 15        | 1        | Т        | Τ.           | #     | Ñ            | Г            |              | Г  | <u> </u>                            |  |  |
| يو | ┝   |           | ┥        | +        | ۲            | ₩     | Ι.           |              | _            | $\vdash$   | Н                                   | $\vdash$   |  |
|    | ├-  | 16        | ₩        |          | ⊢            | ++    | 15           | $\vdash$     |              | ├  |                                     | ⊢  |  |
|    | L.  | 17        | $\perp$  |          | L            | Ш     | 1            | $oxed{oxed}$ | _            |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _  |  |
|    | [   | 18        | 1        | 1        |              | П     | N            |              |              | L  | L                                   | L  |  |
|    | Г   | 19        | T        | Γ        | Т            | П     | N            | Г            |              |  | Г                                   |  |  |
|    | -   | +         | 1        | t        | ┼~           | tt    |              | $\vdash$     | <del> </del> | <del>                                     </del> | $\vdash$                            | $\vdash$   |  |
|    | <b>_</b>  | 20        |          | ـــــ    | ╙            | Ш     | N            | ┞            | <u> </u>     | <u>.</u>   | ــــا                               | ├—   |  |
| _  | <u> </u>  | 21        |          |          | <u> </u>     | V     | N            |              |              | L_   |                                     |  |  |
| 0  |   | (22       |          | Г        |              | 1-    | N            |              |              |  | 1                                   |  |  |
|    |   | 23        |          | 1        | Ι-           | ┢     | Ŋ            |              |              |  | 1                                   | Т  |  |
|    | $\vdash$  | 24        |          | +        | -            | -     |              |              |              | -  | -                                   | -  |  |
|    | ⊢   |           | _        | -        |              | ┡     | N            | -            | -            | $\vdash$   |                                     | -  |  |
|    |   | 25        | L        | <u> </u> |              | ┸     | N            |              | _            | _  |                                     | _  |  |
|    |   | 26        |          |          | ļ            | ı     | T            | Τ            |              | 1  | 1                                   |  |  |
|    | П   | 27        | 1        | T -      | Т            | Т     | 1            |              |              | Π  | П                                   |  |  |
|    | Н   | 28        | -        | t        | ✝            | ✝     | +            |              | 1            | 1  | 1                                   |  |  |
|    | $\vdash$  | _         | -        | ╁        | ╁            | ╃     | ╁            | +            | -            | ╁  | ┢                                   | ╁  |  |
|    | ш   | 29        | -        | ╄        | ㄴ            | ╄     | ↓_           | ↓_           | <u> </u>     | <u> </u>   | _                                   | <b>⊢</b>   |  |
|    |   | 30        | <u>'</u> |          |              | L     |              |              |              |  |                                     | ┖  |  |
|    |   | 31        | ī        |          | 1            |       | [ ]          | 1            | ŀ            | 1  | 1                                   | 1  |  |
|    |   | 32        | :1       | 1        |              | 1     | $\top$       | 1            | Г            | 1  |                                     |  |  |
|    | $\vdash$  | 33        |          | ╁        | <del> </del> | ✝     | +-           | +            | t            | <del>                                     </del> | +                                   | <del>                                     </del> |  |
|    | $\vdash$  | _         |          | +        | ╀            | +     | +            | ┿            | <del> </del> | <del> </del> —                                   | +                                   | ├  |  |
|    | $\vdash$  | 34        |          | $\perp$  | ़            | 1     | ↓_           | ١            | _            | ــــ   | 1                                   | <u> </u>   |  |
|    |   | 35        |          | 1        | 1            | 1     | 1_           | L            | L            | L  | L                                   | L  |  |
|    |   | 36        | ī        |          |              | Г     |              |              |              |  |                                     |  |  |
|    | $\vdash$  | 37        | 12       | T        | t            | $t^-$ | 1            | T            | T            | T  | 1                                   | 1  |  |
|    | $\vdash$  | 38        | _        | +        | $\vdash$     | ╁     | +            | $\vdash$     | $\vdash$     | +  | +                                   | $\vdash$   |  |
|    | $\vdash$  | _         | _        | $\vdash$ | ╀            | ⊢     | +            | ⊢            | $\vdash$     | ╌  | +                                   | ╌  |  |
|    | $\perp$   | 39        | 4        | ┖        | <u> </u>     | ┺     | <del> </del> | <u> </u>     | <u> </u>     | <u> </u>   | $\vdash$                            | ╙  |  |
|    |   | 40        | 1        | I        | 1            | 1     |              | 1            | ŀ            | 1  | 1                                   | 1  |  |
|    |   | 41        | T        | $\top$   | 1            | 1     | 1            | t            | Г            | $\vdash$   | 1-                                  | Τ  |  |
|    | $\vdash$  | _         | _        | ╀        | +            | +     | +            | +            | ⊢            | $\vdash$   | ╀                                   | $\vdash$   |  |
|    | <u>_</u>  | 42        |          | 1        | ١            | 1     | 4—           | ╄            | <b>!</b> —   |  | 1                                   | 1  |  |
|    |   | 43        |          |          |              | 1     | 1_           | L            | L            |  | L                                   |  |  |
|    | Г   | 44        |          |          |              |       |              |              |              |  |                                     |  |  |
|    | $\vdash$  | 45        | _        | +        | t            | +     | +            | +-           |              | $\vdash$   | +                                   | 1  |  |
|    | $\vdash$  | -         | -        | ┿        | ₩            | ╁     | +            | +            | -            | $\vdash$   | +                                   | ⊢  |  |
|    | $\vdash$  | 46        | _        | 1        | ₩.           | ╄     | $\bot$       | 1            | ┞-           | ₩  | ⊢                                   | ┝  |  |
|    | 1   | 47        | 1        |          | L            |       | 1            | 1.           | L            | L  | L                                   | L  |  |
|    | Г   | 48        | Τ        | Т        | 1            |       |              | Π            |              | Π  |                                     | Г  |  |
|    | Н   | 49        | _        | オ▔       | Т            | t     | $\top$       | T            | t-           | 1  | T                                   | Т  |  |
|    | $\vdash$  | _         |          | +        | ┰            | +-    | +-           | +-           | ⊢            | $\vdash$   | +-                                  | ╁╴   |  |
|    | t   | 50        | 1        | 1        | 1            | 1     | 1            | 1            | 1            | 1  | 1                                   | •  |  |

| Cla      | im       |              |                |  |              | Dat      | e            | -            |              |          |   |
|----------|----------|--------------|----------------|--|--------------|----------|--------------|--------------|--------------|----------|---|
|          |          |              |                |  |              |          |              |              |              |          |   |
| Final    | Original | 1            |                |  | ı            |          |              |              |              |          |   |
| <u> </u> | O<br>51  | $\dashv$     | -              | $\dashv$                                     | -            | $\dashv$ |              | $\dashv$     | -            | $\dashv$ | - |
| _        | 52       | ┪            | -              | Н  | -            | $\dashv$ |              |              |              | ᅥ        |   |
|          | 53       | $\dashv$     |                |  | $\dashv$     |          | $\dashv$     | -            | _            | Н        | _ |
|          | 54       | -            | _              | Н  | $\dashv$     | $\dashv$ | -            | Н            | _            | Н        | _ |
| _        | 55       |              | -              | Н  | $\neg$       |          | Н            | _            |              | П        |   |
|          | 56       |              |                | П  |              |          |              |              |              | П        |   |
|          | 57       |              |                |  |              |          |              |              |              |          |   |
|          | 58       |              |                |  |              |          |              |              |              |          |   |
|          | 59       |              |                |  |              |          |              |              |              |          |   |
|          | 60       |              |                |  |              | _        | Щ            |              |              |          | L |
|          | 61       |              |                |  | Ш            |          | Ш            | L_           |              | <u> </u> | L |
|          | 62       |              |                | Ш  |              | _        | Ш            | _            | _            | <u> </u> | L |
| _        | 63       | Ш            |                | _  |              |          | Щ            | <u> </u>     | <b>—</b>     | -        | ┝ |
|          | 64       | Н            |                | ⊢  | H            | -        |              |              | _            | ┝        | ┝ |
|          | 65<br>66 | H            |                | ├  | $\vdash$     | $\vdash$ | $\vdash$     | <del> </del> | -            | ⊢        | ┝ |
|          | 67       | -            | -              | ┢  | $\vdash$     | -        |              | $\vdash$     | H            | ┝        | ┝ |
| _        | 68       | <del> </del> | _              | $\vdash$                                     | -            | ├-       | H            | Н            | ┝            | ╫╌       | ┢ |
|          | 69       |              |                | H  | 1            | _        | $\vdash$     |              | _            | ╁        | t |
|          | 70       | <del> </del> | -              | t  | Н            | ┢        | $\vdash$     | <b>†</b>     | H            | 1        | r |
|          | 71       | ┢╌           |                | $\vdash$                                     | $\vdash$     | ┢        | ┼─           | $\vdash$     | H            | H        | H |
|          | 72       | ╌            | Н              | T  | -            | $\vdash$ | T            |              | Г            | 1        | T |
|          | 73       | -            | _              |  | Г            | _        | Т            |              | Г            | $\vdash$ | T |
|          | 74       | Γ            |                |  |              |          |              |              |              |          |   |
|          | 75       |              |                |  |              |          | 1            |              |              |          |   |
|          | 76       |              |                | L  |              |          |              | Ŀ            |              |          | L |
|          | 77       | <u> </u>     |                |  | L            | L        |              | <u> </u>     | L            | L        | L |
| _        | 78       | Ļ            | L              | ↓_   | <u> </u>     | L        | ļ            | ▙            | ╙            | ┡        | L |
| <u> </u> | 79       | <u> </u>     |                | <u>                                     </u> | <u> </u>     | L        | ↓            | ┞            | ┞            | ⊢        | L |
| <u> </u> | 80       | -            | -              | ╄  | ⊢            | ┝        | ⊢            | -            | ⊢            | ╁╌       | - |
| ⊢        | 81<br>82 |              | -              | 1  | ⊢            | ┝        | ⊢            | ┝            | ┝            | ┾╌       | ┝ |
|          | 83       | -            | $\vdash$       | ┼~   | $\vdash$     | $\vdash$ | +-           | H            | ┢            | +        | ╁ |
|          | 84       | $\vdash$     | $\vdash$       | $\vdash$                                     | $\vdash$     |          | ╆            | $\vdash$     | $\vdash$     | $\vdash$ | + |
| $\vdash$ | 85       | +-           | -              | T  | $\vdash$     | -        | t            | t            | 1            | +        | ۲ |
| $\vdash$ | 86       | T            | $\vdash$       | t  | -            | T        | T            |              | $\vdash$     | 1        | t |
|          | 87       | $\vdash$     | 1              | T  |              |          |              | T            |              | Γ        | Í |
|          | 88       |              |                |  |              |          |              |              |              |          | Γ |
|          | 89       |              |                |  |              |          |              |              |              |          | Ĺ |
| Ĺ        | 90       | L            | Ĺ              |  |              |          | $oxed{\Box}$ | $\perp$      | L            | L        | L |
|          | 91       |              |                |  |              |          |              |              |              |          | Ĺ |
|          | 92       | _            |                |  |              |          |              |              |              |          | L |
| L        | 93       | -            | L              | L  | L            | L        | L            | L            | $\perp$      | L        | Ļ |
| L        | 94       |              |                | ┺  | $oxed{oxed}$ | ┖        | ļ            | ļ            | 1_           | $\perp$  | L |
| $\vdash$ | 95       | +            | $\vdash$       | $\vdash$                                     |              | <u> </u> | 1            | 1            | ┞-           | ╀        | ╀ |
| <u> </u> | 96       | _            | L              | ╀  | ┡            | ⊢        | ╀-           | ┞-           | <del> </del> | ╀        | ╀ |
| <u> </u> | 97       | _            | L              | ╄  | 1            | ⊢        | 1            | ₽-           | ╄            | ╂-       | ╀ |
| oxdot    | 98       |              | <del>  -</del> |  | -            | -        | $\vdash$     | +-           | +-           | +-       | H |

| Claim             |                   |          |          |                | Dat          | e            |          |        |          | _         |
|-------------------|-------------------|----------|----------|----------------|--------------|--------------|----------|--------|----------|-----------|
| Final<br>Original |                   |          |          | Ì              |              |              |          |        |          |           |
| 101               |                   | ┥        | $\dashv$ | _              | _            | $\vdash$     | Н        | Н      | $\dashv$ |           |
| 102               | $\vdash \uparrow$ | ┪        | -        | -              | -            | H            | H        | Н      | $\dashv$ | _         |
| 103               | -+                | ┪        |          | _              | Т            |              | _        | П      |          |           |
| 104               | $\vdash$          | 寸        |          |                | -            | Г            |          |        |          | _         |
| 105               |                   |          |          | -              |              |              |          |        |          |           |
| 106               | _                 |          |          |                |              |              | L        |        | П        | _         |
| 107               | —                 | _        |          |                | L            | L            |          | L      |          | _         |
| 108               | -                 | _        |          | _              | ╙            | Ь.           | _        |        | Н        | _         |
| 109               |                   | _        |          | _              | ├-           | ⊢            | ┡        | _      | Н        | <u> </u>  |
| 110               |                   | -1       |          | <del> </del> - | ├            | ⊢            | _        | -      | H        | ļ         |
| 111               |                   | _        |          | $\vdash$       | ⊢            | <del> </del> | -        | -      | -        | ⊢         |
| 113               | ╁                 |          | _        | ├              | ┝            | ╁            | ⊢        |        | H        | ⊢         |
| 114               |                   | -        |          |                | $\vdash$     | +-           | $\vdash$ | ┢      | -        | $\vdash$  |
| 115               |                   | _        |          | $\vdash$       | $\vdash$     |              | 1        | Т      | ┢        | -         |
| 116               |                   |          |          |                | ↾            | T            | T        | Γ      | Г        | Γ         |
| 117               | ⊟                 |          |          |                |              |              |          |        |          |           |
| 118               |                   |          |          |                |              |              |          |        |          |           |
| 119               |                   |          |          | L              |              |              | L        | Ļ      | L        | 匚         |
| 120               |                   |          |          | l .            |              |              |          | L      | L        | L         |
| 121               |                   |          |          |                |              |              | L        | L      | L        | L         |
| 122               | -                 | _        | L        | ļ_             | $oxed{oxed}$ | 1            | ┡        | Ļ.,    | L        | L         |
| 12                | _                 |          |          | ļ              | L            | ╙            | <u>⊢</u> | ┞      | ļ.,      | ₽         |
| 124               |                   |          | L        | ┡              | ╀            | <b>├</b>     | ╀        | ┞      | ┝        | ┞         |
| 125               | $\rightarrow$     |          | <u> </u> | ┞              | ╄            | ╁            | ╀        | ╀      | ┝        | -         |
| 126               | $\overline{}$     |          | ┝        | ⊢              | ╁            | ╁            | ┼        | ┼      | -        | H         |
| 127               |                   | _        | ┝        | ┝╌             | ╁╾           | ╁            | ╁        | ╁╴     | ┼-       | H         |
| 129               |                   | -        | -        | H              | 十            | ╁╌           | ┪        | t      | H        | ┢         |
| 130               |                   | _        | -        | ┢              | t            | $\vdash$     | ┼        | 1      | ✝        | t         |
| 13                | _                 | _        | Г        | Τ              | Т            | 1            | T        | T      | 1        | T         |
| 132               |                   |          |          | Г              | Π            | Ι.           |          |        |          | Γ         |
| 130               |                   |          |          |                |              |              | Γ        |        |          |           |
| 13                |                   |          | 匚        | $\Box$         | Ĺ            | Ĺ            | L        | Ĺ      | L        | Ļ         |
| 13:               |                   |          | _        | L              | L            | 1            | ╄        | L      | Į.       | ↓_        |
| 130               | _                 |          | 1        | ┡              | $\vdash$     | <del> </del> | ↓_       | ↓_     | $\vdash$ | ╀         |
| 13                |                   |          | $\vdash$ | -              | ╄            | -            | ╁        | +-     | $\vdash$ | ┞         |
| 138               | -                 | <u> </u> | $\vdash$ | 1              | ╀            | +            | ┼-       | ╁      | ┼-       | ╁         |
| 139               |                   | -        | $\vdash$ | ╁              | ╁            | +            | +        | +      | +        | ╁         |
| 14                |                   | -        | ┢        | +              | +            | +            | +        | +      | +-       | ╁         |
| 14:               |                   |          | $\vdash$ | +              | +            | ╁            | ╁        | +      | +        | t         |
| 14                |                   |          | $\vdash$ | +              | +            | +            | 十        | +      | +        | $\dagger$ |
| 14                | $\overline{}$     | Н        | 1        | +              | t            | $\dagger$    | t        | t      | T        | t         |
| 149               |                   | ┢        | Т        | 1              | †            | $^{\dagger}$ | T        | ٢      | T        | T         |
| 140               |                   |          |          | Т              | 1            | T            | Τ        | Τ      | T        | Ī         |
| 14                | 7                 | Г        | Γ        | Τ              | T            | T            | Τ        | Τ      | Τ        | T         |
| 14                |                   |          |          |                | L            |              |          |        |          |           |
| 14                |                   | $\Box$   | Ľ        | L              | Γ            | Ţ            | L        | $\Box$ | Ľ        | L         |
| 15                | oj                |          | <u>L</u> | L              | L            | Т-           | L        | L      | L        |           |

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